

DERWENT-ACC-NO: 1984-306248

DERWENT-WEEK: 198449

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TITLE: Prepn. of beta-lactamase - by culturing E. coli W rec. A  
13 Sup(o) with phage lambda apQR-

INVENTOR: CHERNYKH, S I; KORDYUM, V A ; SOROCHINSK, T V

PATENT-ASSIGNEE: AS UKR MOLECUL BIOL[AUMOR]

PRIORITY-DATA: 1982SU-3516135 (November 29, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
SU 1089119 A	April 30, 1984	N/A	003 N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
SU 1089119A	N/A	1982SU-3516135	November 29, 1982

INT-CL (IPC): C12N009/38

ABSTRACTED-PUB-NO: SU 1089119A

BASIC-ABSTRACT:

Beta-lactamase is obtd. by culturing E.coli strain W 3101 rec. A-13 sup(0) (I) contg. plasmide pBR 322 with a phage lambda-ApQR-(II), in an amt. 1-20 phage corpuscles per cell.

ADVANTAGE - A high beta-lactamase yield is obtd.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PREPARATION BETA LACTAMASE CULTURE COLI PHAGE  
LAMBDA

DERWENT-CLASS: D16

CPI-CODES: D05-C03; D05-H03;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1984-130582

DERWENT-ACC-NO: 1979-13826B

DERWENT-WEEK: 197907

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TITLE: Biosynthesis of biologically active cpds. e.g. microbial  
enzyme - includes addn. of lysis-inducing microbial  
strain to thermally treated producer strain

INVENTOR: CHERNYKH, S I; KORDYUM, V A

PATENT-ASSIGNEE: AS UKR MOLEC BIOL[AUMOR]

PRIORITY-DATA: 1976SU-2391670 (August 1, 1976)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
SU 600175 A	March 28, 1978	N/A	000 N/A

INT-CL (IPC): C12D013/10

ABSTRACTED-PUB-NO: SU 600175A

BASIC-ABSTRACT:

Microbial enzymes, e.g. beta-galactosidase, are useful in food mfg. industry, e.g. milk waste processing, and in medicine. They are biosynthesised by culturing producer microbial strain in corresp. medium with the addn. of a lysis inducing microbial strain at required moment to regulate the biosynthesis so as to obtain condition for max. prod. yield. To increase the yield and to simplify the process so that it can have industrial application, the lysogenic strain is preheated at 40-45 degrees C before adding it to culture medium. The thermo induction activates the lysogenic strain.

TITLE-TERMS: BIOSYNTHESIS BIOLOGICAL ACTIVE COMPOUND MICROBE  
ENZYME ADD LYSE  
INDUCE MICROBE STRAIN THERMAL TREAT PRODUCE STRAIN

DERWENT-CLASS: B04 D13 D16

CPI-CODES: B04-B02C3; D05-C03;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

V800 N130 M720 M423 M902

L Number	Hits	Search Text	DB	Time stamp
3	218	(lysis same lambda) and ("t7" or sp6)	USPAT	2003/09/11 11:52
4	26	(lysis same lambda) same ("t7" or sp6)	USPAT	2003/09/11 11:55
5	4	((lysis or lysing or lysed) with lambda) and ("t7" or sp6) with lambda)	USPAT	2003/09/11 11:57
6	2	((lysis or lysing or lysed) with lambda) and ("t7" or sp6) with lambda)	US-PGPUB	2003/09/11 11:58
7	1	((lysis or lysing or lysed) with lambda) and ("t7" or sp6) with lambda)	EPO; JPO; DERWENT	2003/09/11 11:59
8	2	(lysis or lysing or lysed) and lambda and ("t7" or sp6)	EPO; JPO; DERWENT	2003/09/11 11:59
9	82	lysis same (lambda same (n or q or r))	USPAT	2003/09/11 12:00
10	34	(lysis same (lambda same (n or q or r))) and ("t7" or sp6)	USPAT	2003/09/11 12:01
11	12	kordyum-v\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/11 12:02
-	31	FORMAT ADJ SAVE	USPAT	2002/03/20 14:34
-	57603	lambda	USPAT	2002/07/01 12:21
-	1736587	n or q or r	USPAT	2002/07/01 12:11
-	14905	lambda same (n or q or r)	USPAT	2002/07/01 12:11
-	17325	lysis	USPAT	2002/07/01 12:11
-	2205	lysis same (n or q or r)	USPAT	2002/07/01 12:12
-	68	lysis same (lambda same (n or q or r))	USPAT	2003/09/11 12:00
-	19323	"t7" or sp6	USPAT	2002/07/01 12:17
-	26	(lysis same (lambda same (n or q or r))) and ("t7" or sp6)	USPAT	2003/09/11 12:01
-	4	lambda same lysis same (n or q or r)	US-PGPUB	2002/07/01 12:23
-	1	lambda same lysis same (n or q or r)	EPO; JPO; DERWENT	2002/07/01 12:24
-	16	lambda and lysis and (n or q or r)	EPO; JPO; DERWENT	2002/07/01 12:24
-	7	kordyum-v\$.in.	EPO; DERWENT	2003/09/11 12:02